FIG.1

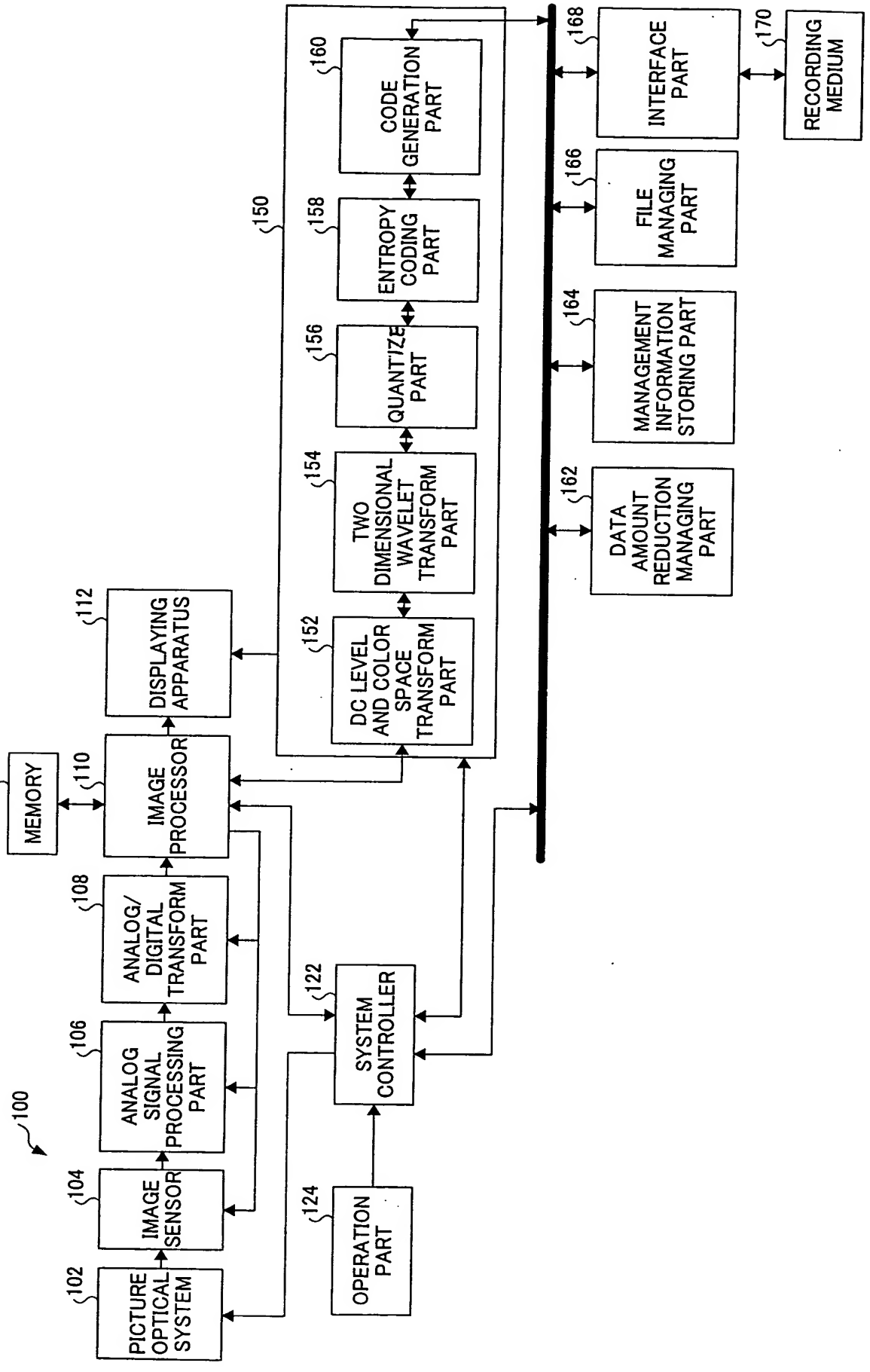
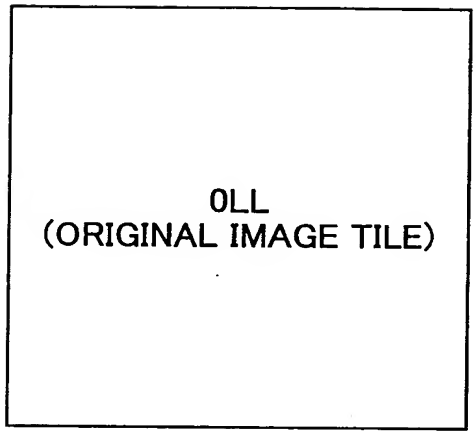
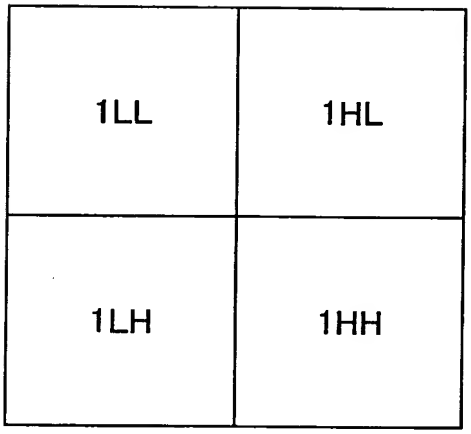

100
102
PICTURE OPTICAL SYSTEM
104
IMAGE SENSOR
106
ANALOG SIGNAL PROCESSING PART
108
ANALOG/ DIGITAL TRANSFORM PART
110
IMAGE PROCESSOR
112
DISPLAYING APPARATUS
114
MEMORY
122
SYSTEM CONTROLLER
124
OPERATION PART
150
152
DC LEVEL AND COLOR SPACE TRANSFORM PART
154
TWO DIMENSIONAL WAVELET TRANSFORM PART
156
QUANTIZE PART
158
ENTROPY CODING PART
160
CODE GENERATION PART
162
DATA AMOUNT REDUCTION MANAGING PART
164
MANAGEMENT INFORMATION STORING PART
166
FILE MANAGING PART
168
INTERFACE PART
170
RECORDING MEDIUM

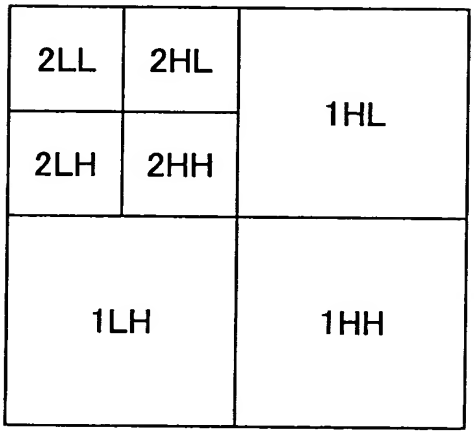
FIG.2



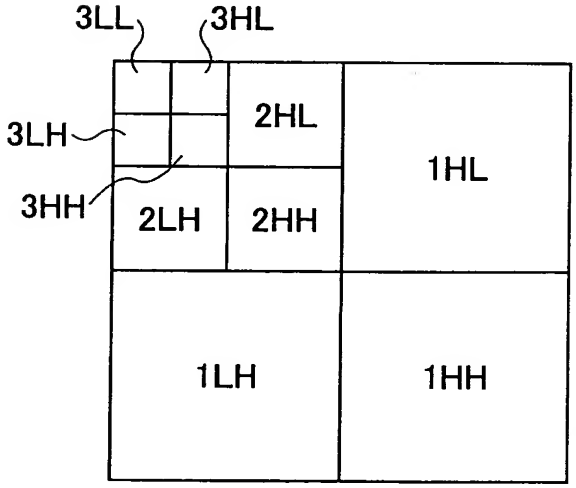
(a)LEVEL0



(b)LEVEL1



(c)LEVEL2



(d)LEVEL3

FIG.3

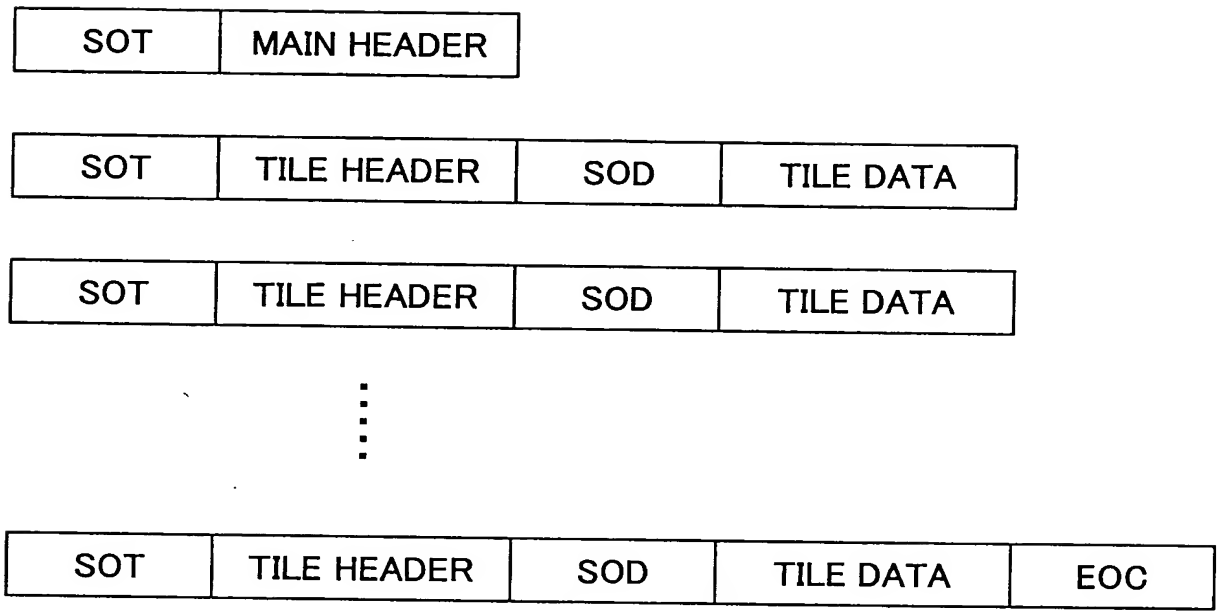

SOT
MAIN HEADER
SOT
TILE HEADER
SOD
TILE DATA
SOT
TILE HEADER
SOD
TILE DATA
SOT
TILE HEADER
SOD
TILE DATA
EOC

FIG.4

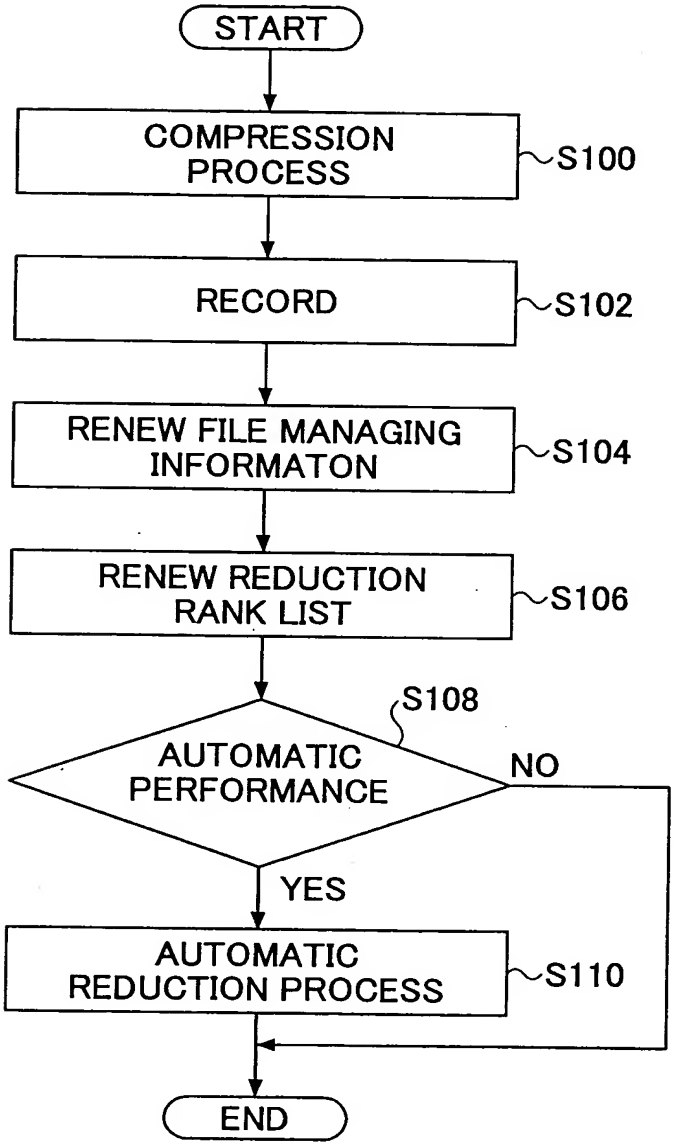

START
COMPRESSION PROCESS
S100
RECORD
S102
RENEW FILE MANAGING INFORMATON
S104
RENEW REDUCTION RANK LIST
S106
S108
AUTOMATIC PERFORMANCE
NO
YES
AUTOMATIC REDUCTION PROCESS
S110
END

FIG.5

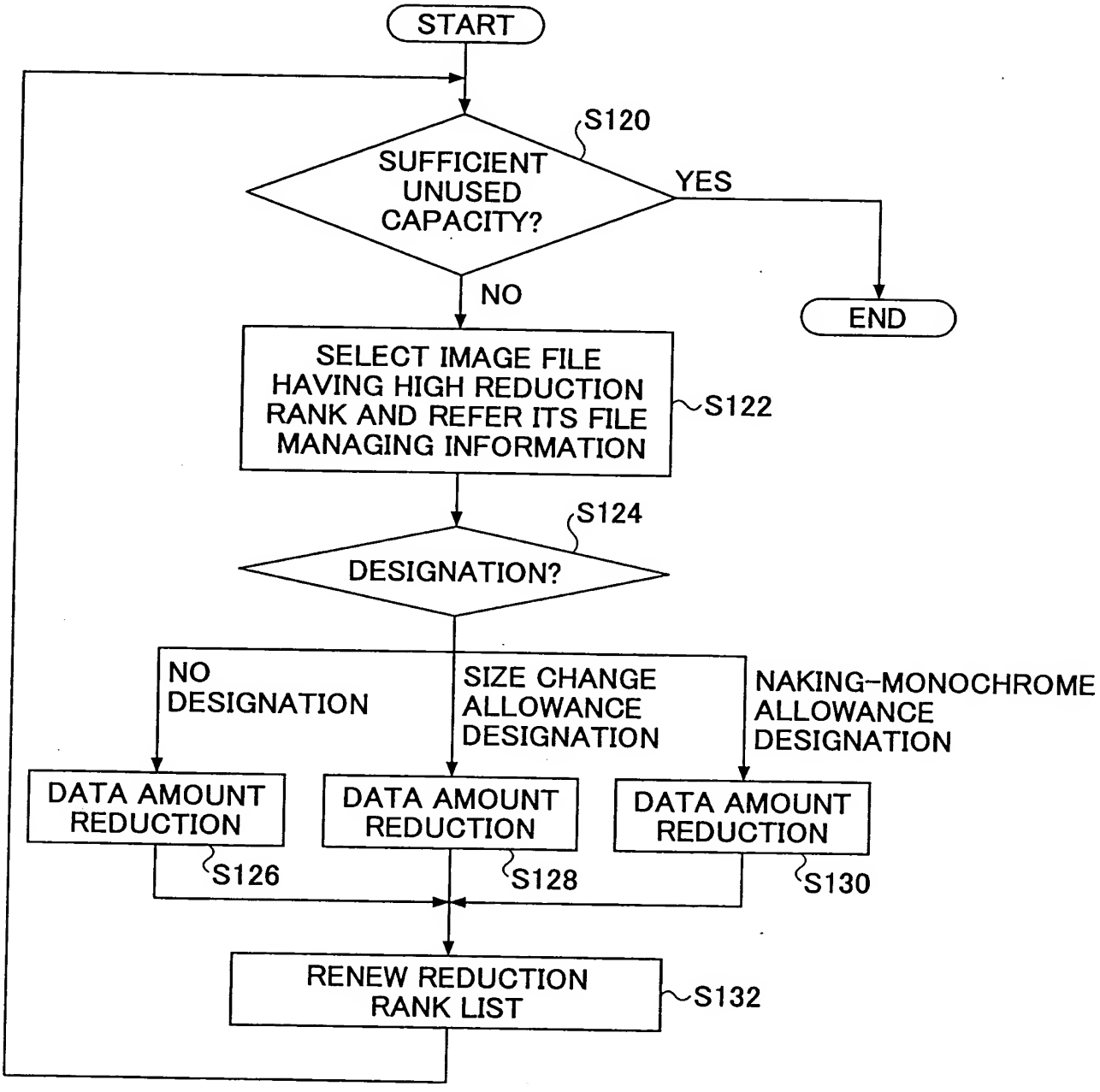

START
S120
SUFFICIENT UNUSED CAPACITY?
YES
NO
END
SELECT IMAGE FILE HAVING HIGH REDUCTION RANK AND REFER ITS FILE MANAGING INFORMATION
S122
S124
DESIGNATION?
NO DESIGNATION
SIZE CHANGE ALLOWANCE DESIGNATION
NAKING-MONOCHROME ALLOWANCE DESIGNATION
DATA AMOUNT REDUCTION
DATA AMOUNT REDUCTION
DATA AMOUNT REDUCTION
S126
S128
S130
RENEW REDUCTION RANK LIST
S132

FIG.6

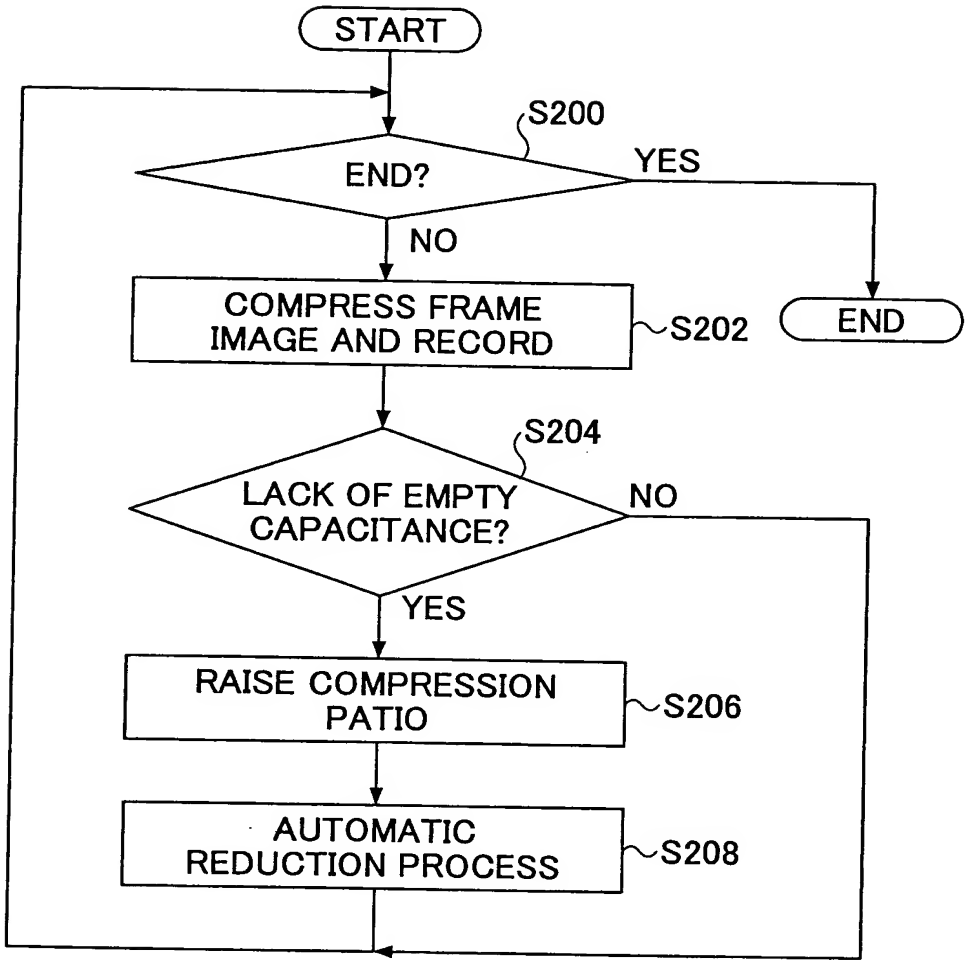

START
S200
END?
YES
NO
COMPRESS FRAME IMAGE AND RECORD
S202
END
S204
LACK OF EMPTY CAPACITANCE?
NO
YES
RAISE COMPRESSION PATIO
S206
AUTOMATIC REDUCTION PROCESS
S208

FIG.7

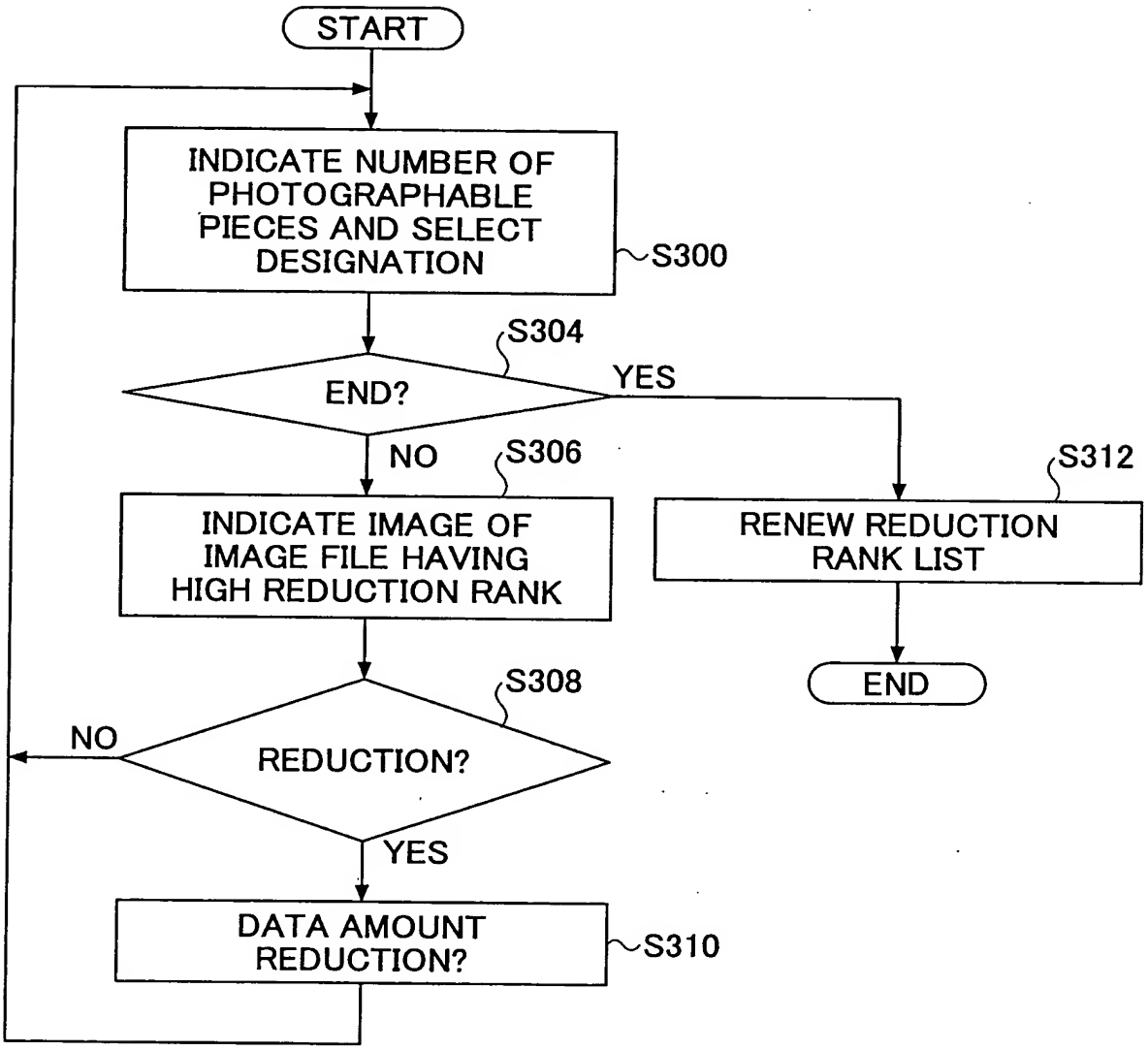

START
INDICATE NUMBER OF PHOTOGRAPHABLE PIECES AND SELECT DESIGNATION
S300
S304
END?
YES
NO
S306
INDICATE IMAGE OF IMAGE FILE HAVING HIGH REDUCTION RANK
S312
RENEW REDUCTION RANK LIST
END
S308
NO
REDUCTION?
YES
DATA AMOUNT REDUCTION?
S310

FIG.8

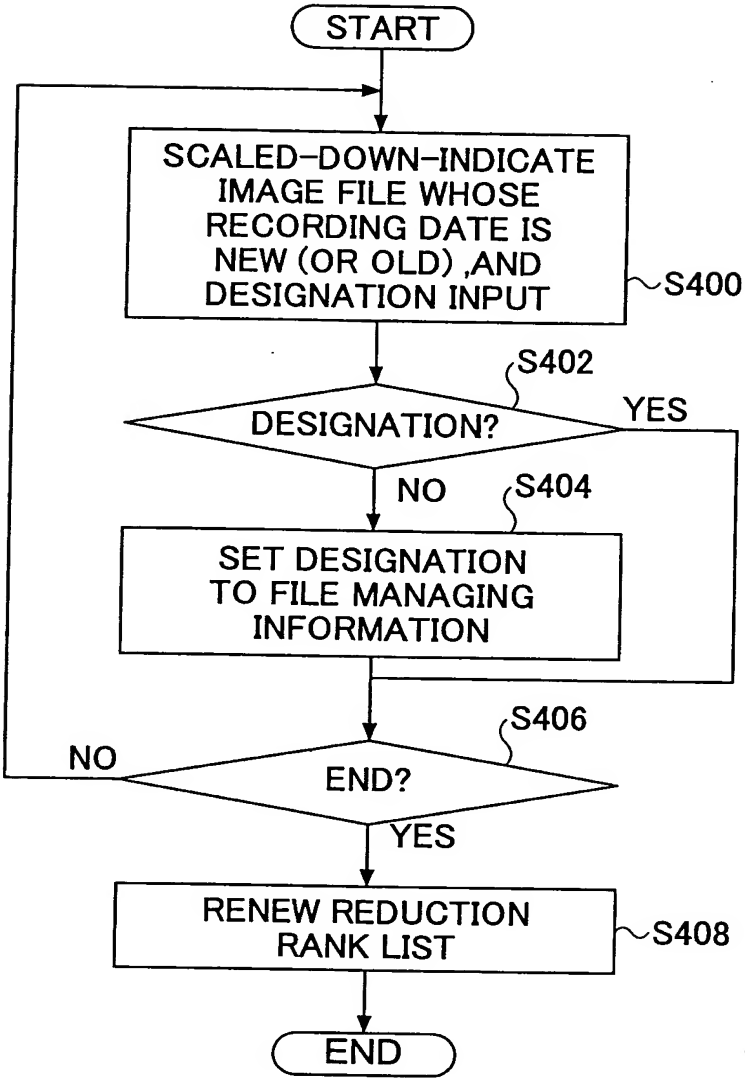

START
SCALED-DOWN-INDICATE IMAGE FILE WHOSE RECORDING DATE IS NEW (OR OLD) ,AND DESIGNATION INPUT
S400
S402
DESIGNATION?
YES
NO
S404
SET DESIGNATION TO FILE MANAGING INFORMATION
S406
NO
END?
YES
RENEW REDUCTION RANK LIST
S408
END

FIG.9

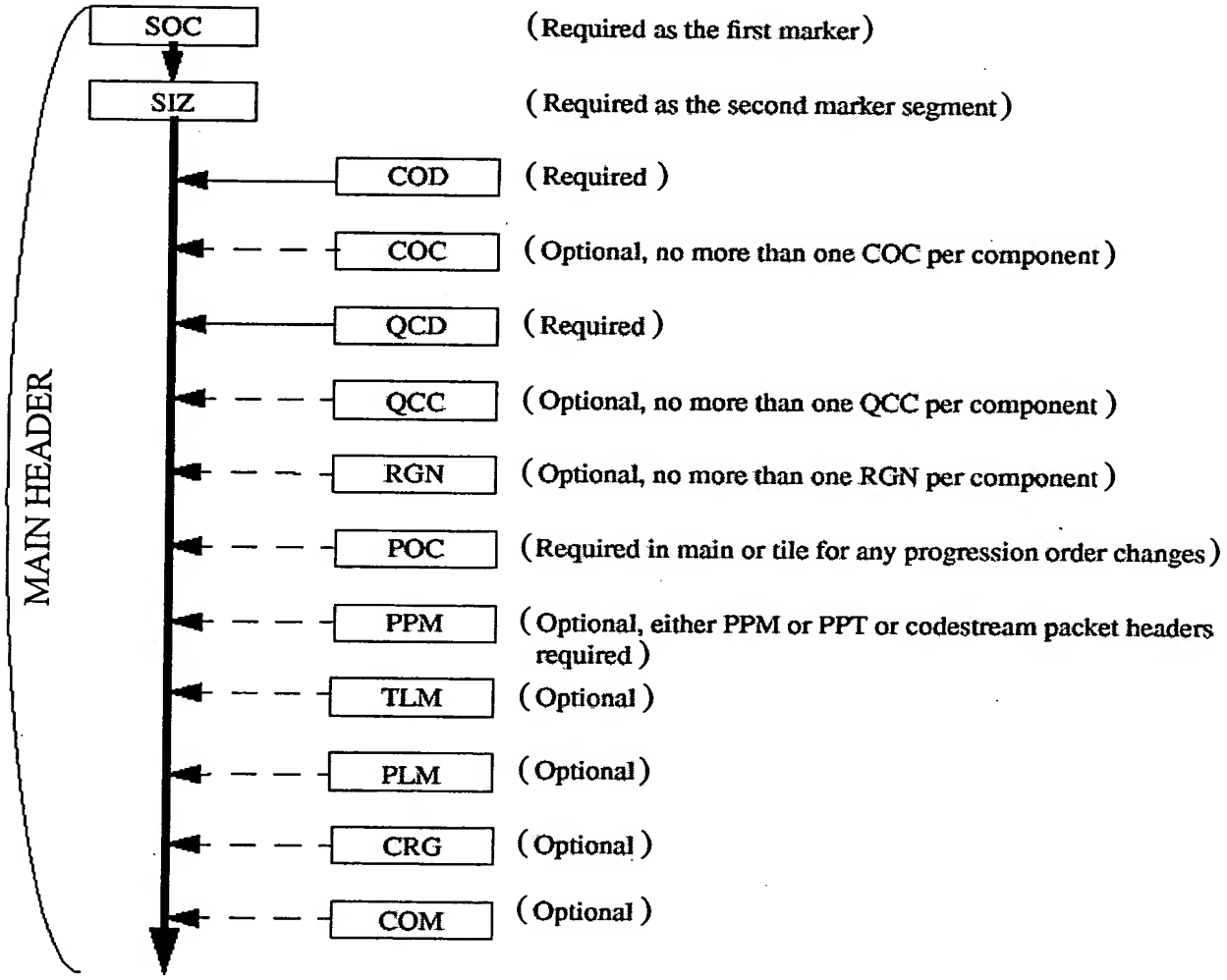

MAIN HEADER
SOC
(Required as the first marker)
SIZ
(Required as the second marker segment)
COD
(Required)
COC
(Optional, no more than one COC per component)
QCD
(Required)
QCC
(Optional, no more than one QCC per component)
RGN
(Optional, no more than one RGN per component)
POC
(Required in main or tile for any progression order changes)
PPM
(Optional, either PPM or PPT or codestream packet headers required)
TLM
(Optional)
PLM
(Optional)
CRG
(Optional)
COM
(Optional)

FIG.10

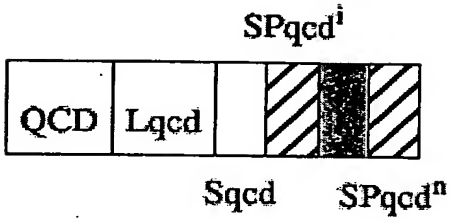


FIG.11

Parameter	Size (bits)	Values
QCD	16	0xFF5C
Lqcd	16	4 — 197
Sqcd	8	FIG. 12
SPqcd^i	variable	FIG. 12

FIG.12

Values (bits) MSB LSB	Quantization style	SPqcd or SPqcc size (bits)	SPqcd or SPqcc usage
xxx0 0000	No quantization	8	FIG.13
xxx0 0001	Scalar derived (values signalled for N_LLL subband only). Use Equation E.5.	16	FIG.14
xxx0 0010	Scalar expounded (values signalled for each subband). There are as many step sizes signalled as there are subbands.	16	FIG.14
000x xxxx — 111x xxxx	Number of guard bits 0 — 7		
	All other values reserved		

FIG.13

Values (bits) MSB LSB	Reversible step size values
0000 0xxx — 1111 1xxx	Exponent ε_b of the reversible dynamic range signalled for each subband
	All other values reserved

FIG.14

Values (bits) MSB LSB	Quantization step size values
xxxx x000 0000 0000 — xxxx x111 1111 1111	Mantissa, μ_b, of the quantization step size value
0000 0xxx xxxx xxxx — 1111 1xxx xxxx xxxx	Exponent, ε_b, of the quantization step size value

FIG.15

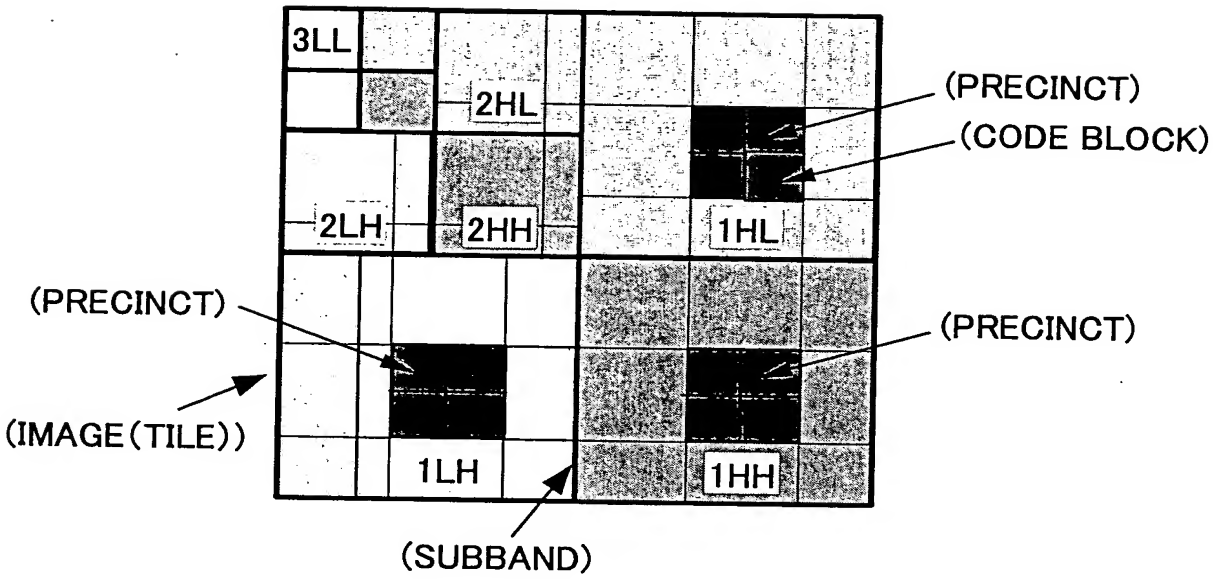

3LL
2HL
2LH
2HH
1HL
1LH
1HH
(PRECINCT)
(CODE BLOCK)
(PRECINCT)
(PRECINCT)
(IMAGE(TILE))
(SUBBAND)

FIG.16A

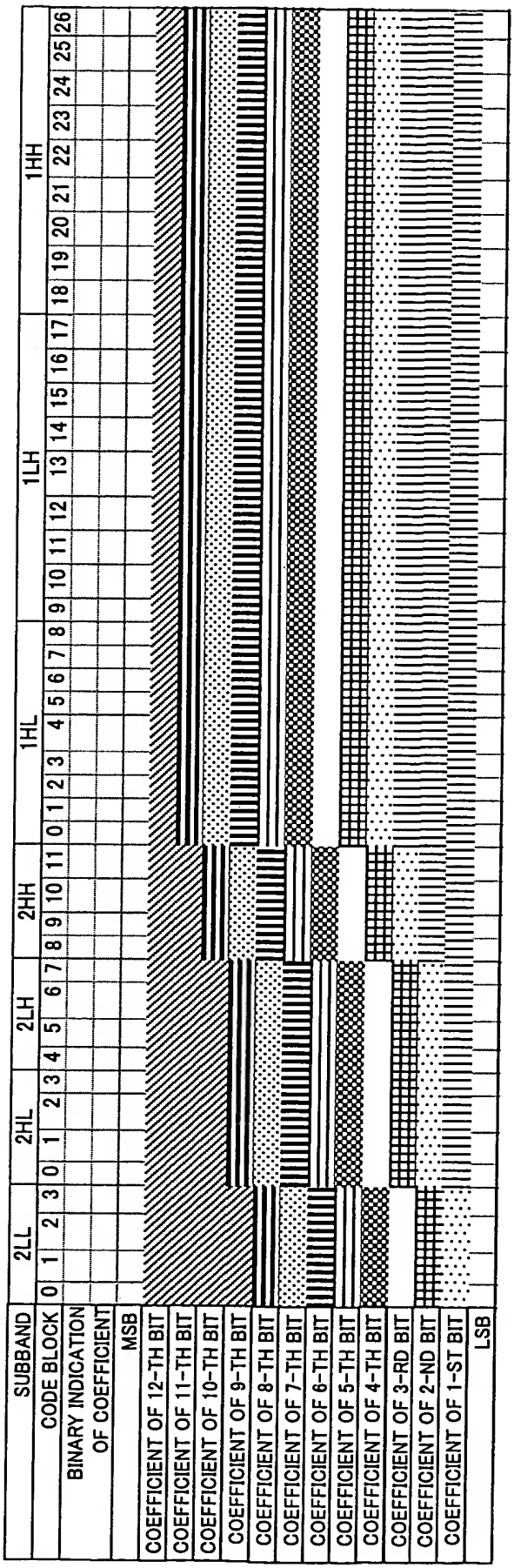


FIG.16B

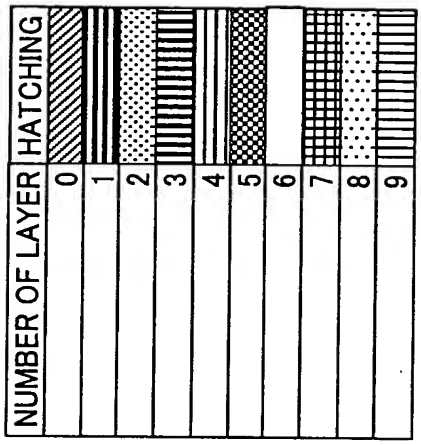
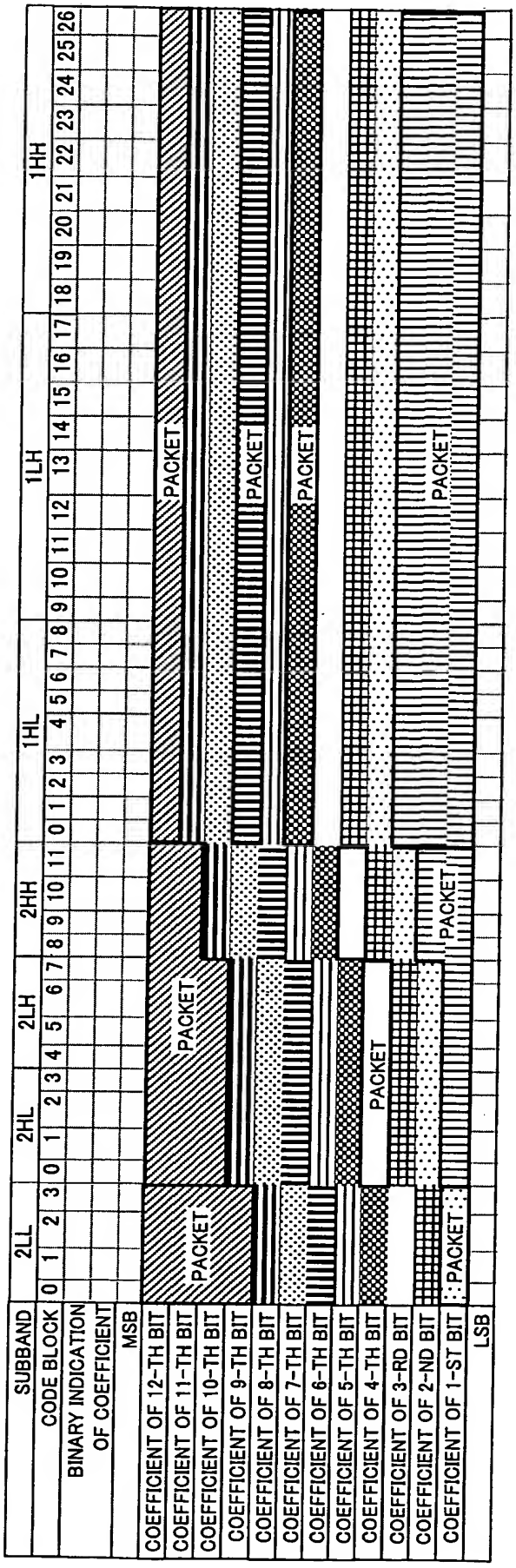


FIG.16C


SUBBAND
2LL
2HL
2LH
2HH
1HL
1LH
1HH
CODE BLOCK
0 1 2 3 0 1 2 3 4 5 6 7 8 9 10 11 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
BINARY INDICATION OF COEFFICIENT
MSB
LSB
COEFFICIENT OF 12-TH BIT
COEFFICIENT OF 11-TH BIT
COEFFICIENT OF 10-TH BIT
COEFFICIENT OF 9-TH BIT
COEFFICIENT OF 8-TH BIT
COEFFICIENT OF 7-TH BIT
COEFFICIENT OF 6-TH BIT
COEFFICIENT OF 5-TH BIT
COEFFICIENT OF 4-TH BIT
COEFFICIENT OF 3-RD BIT
COEFFICIENT OF 2-ND BIT
COEFFICIENT OF 1-ST BIT
PACKET
PACKET
PACKET
PACKET
PACKET
PACKET
PACKET
PACKET